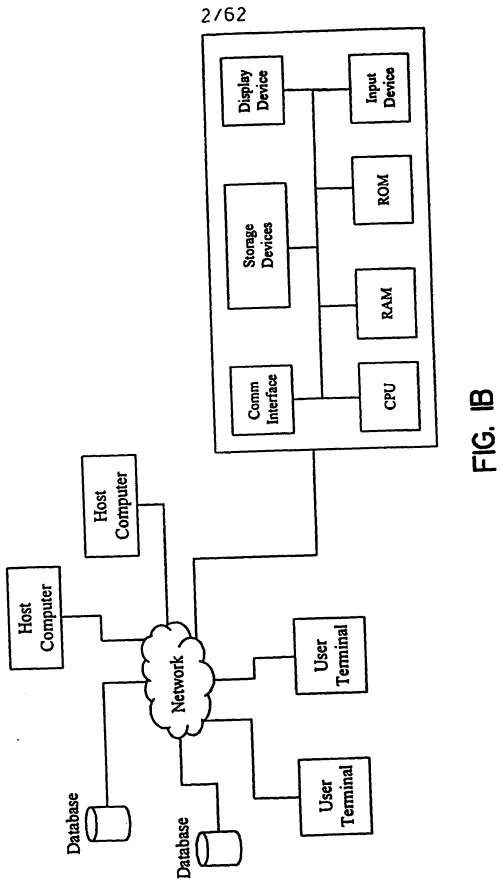


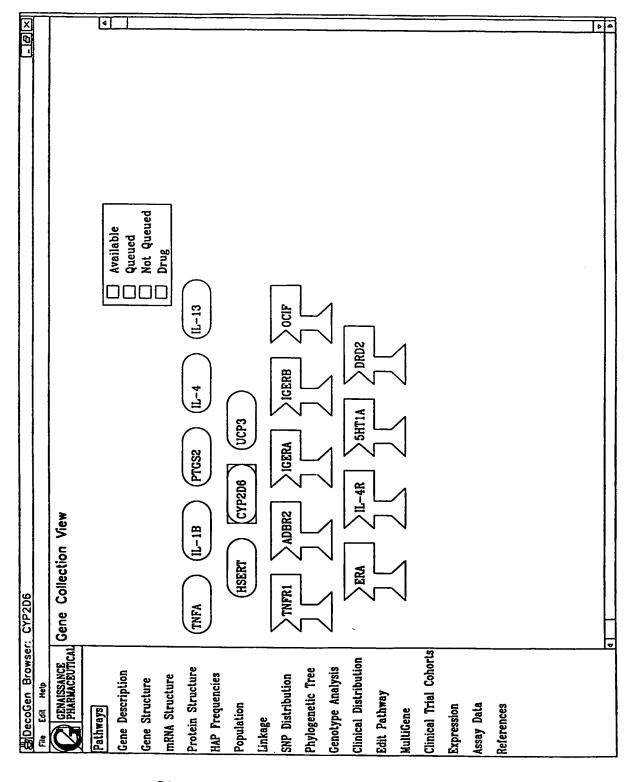
FIG. IA



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PCT/US00/17540

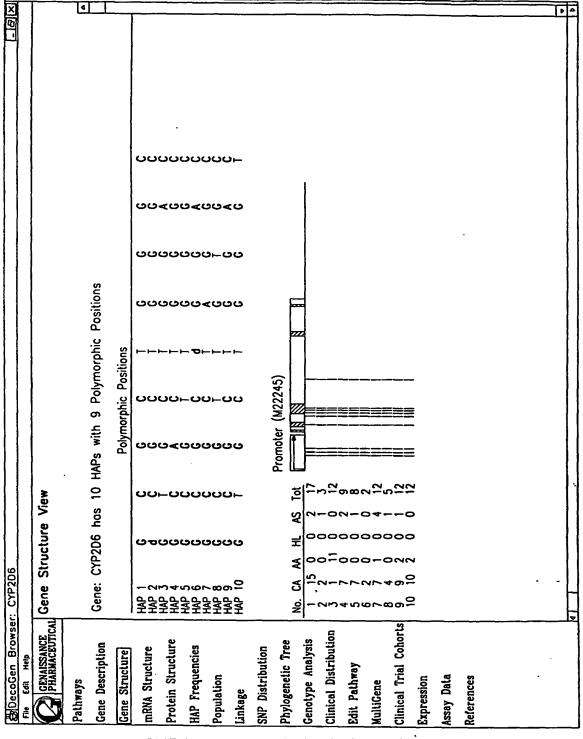
3/62 **7 9** 



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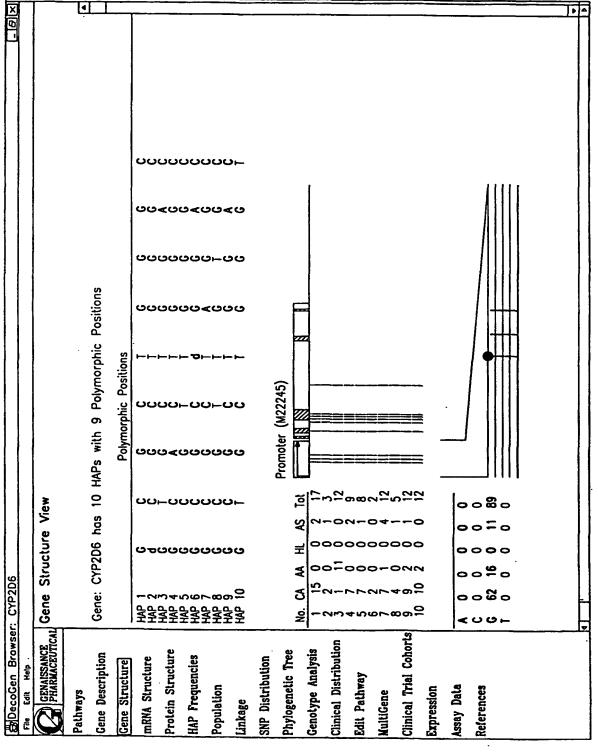
| ENDecoGen Browser: CYP205 | CYP206                          |  |    |
|---------------------------|---------------------------------|--|----|
| File Edit Help            |                                 |  | T  |
| GENAISSANCE GENE          | Gene Description View           |  |    |
| Pathwavs                  |                                 |  | ٩  |
| Commun.                   | Name                            | CYP206                                   |    |
| Gene Description          | Definition                      | Human cytochrome P450 IID6 (CYP206) gene |    |
| Gene Structure            | Function                        | Metabolic enzyme                         |    |
| mKNA Structure            | Organism                        | Homo Sapiens                             |    |
| Protein Structure         | Length                          | 9432                                     |    |
| HAP rrequencies           | No Features                     | 13                                       |    |
| Population                | Population Size                 | 46                                       |    |
| Linkage                   | No. Haplotypes                  | 10                                       |    |
| SNP Distribution          | Nucleotide Polymorphism (theta) | 0) 5.66-4 +/- 3.16-4                     |    |
| Phylogenetic Tree         | Nucleotide Diversity (pi)       | 2.8E-4 +/- 1.8E-4                        |    |
| Genotype Analysis         |                                 |  |    |
| Clinical Distribution     |                                 |  |    |
| Edit Pathway              |                                 |  |    |
| MultiGene                 |                                 |  |    |
| Clinical Trial Cohorts    |                                 |  |    |
| Expression                | -                               |  |    |
| Assay Data                |                                 |  |    |
| References                |                                 |  |    |
|                           |                                 |  |    |
|                           |                                 |  |    |
|                           |                                 |  |    |
|                           |                                 |  | 10 |
| <u>*</u>                  |                                 | 1  | 1  |

**-1G. 4a** 2/65



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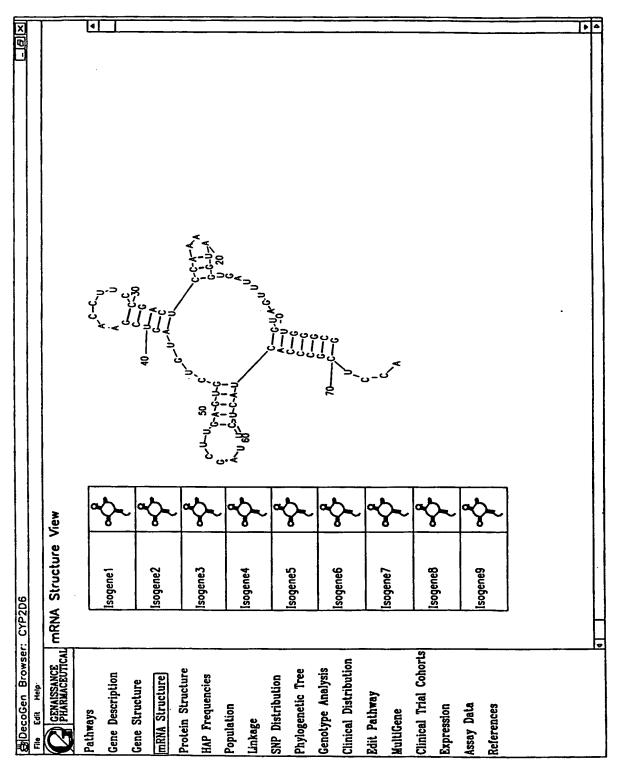
FIG. 4b .29



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| XIOI -                         |                       | 6   | 900   | 200   | 200   | 200   | 200  | 200   | 780  | 200   | 200  | • | 10 ms              |
|--------------------------------|-----------------------|-----|---|---|---|---|--|---|--|---|--|---|--------------------|
|                                |                       | 009 | ၁၀င်သစ်စပ   | ပစ္အရွင္ကင္သြင္တြင္   | aggccDgc  | oggoodge  | oggecoge   | oggoogge  | oggoogge   | ანქაანნი  | ანეთანნი   |   | Redraw time= 10 ms |
|                                |                       | 290 | gaaacataa   | 1gaaacotga  | agaaacatga  | agaaacatga  | agooocatgo   | ogaaacatga  | agaaacatga   | agaaacatga  | ogooocotgo   |   | æ                  |
|                                |                       | 580 | patttctoate   | attectaate  | atttetaate  | atttctaato  | otttctootc   | patttetaate   | pottletoote  | attletaate  | attctaato  |   |                    |
|                                |                       | 570 | ttcccaccac  | Itteceaecag   | ttcccaccac  | ttcccaccag  | Itteceaecag  | ttcccaccag  | ttcccacca  | ttcccocca   | ttcccacca  |   |                    |
|                                |                       | 260 | ctccotoocc  | ctccataacg  | ctccataacç  | ctccataacg  | ctccataacg   | ctccataacç  | ctccataocç   | sctccataacç   | ctccataacc   |   |                    |
|                                |                       | 550 | acaaaagate  | acaaaggate  | acaaaagaata   | ocaoaagatk  | accasaggate  | acaaaggate  | acaaaagaatk  | acoaaogaata   | acaaaagaate  |   |                    |
| 13388)                         |                       | 540 | tocagacacacacacacacacacatoteetgaacacacaggateeteeaacgteeeteecaceacagattetaateagaacatggaggeeggoog | taaagaaaaaaaaaataaagcaacatateetgaacaaaggateetecataaegtteecaeeagattietaateagaaaacotgagageellgooo | taaagaaaaaaaaaataaagcaacatateetgaacaaaggateetecataaegtteeeecagatttetaateagaaaacatggaggeeDgaaa | taaagaaaaaaaaaataaagcaacatateetgaacaaaggateeteeataacgtteecaecagatttetaateagaaacatggaggeeDgaaa | <u>taaaqoooooooootooogcoocoloteetgoocoaaggateeteeataacgtteecocogotttetooteagaaacotgaaggeeDgooo</u> | taaagaaaaaaaaaaaaaagcaacatateetgaacaaaggateeteeataaggtakeeaeegtteeaateagaaaacatggaggeeDgaaa | taaagaaaaaaaaaataaagcaacatateetgaacoaoggateeteeataacgtteecoecagotttetooteogaaaacotggaggeeGgoaa | taaagaaaaaaaaataaagcaacatoteetgaacaaaggateetecotaacgtteecoccagottletaoteagaaaacatggaggeeGgaaa | taoogaaaaaaaaaaaagaaacatoteetgoacaaaggateeteeataaegtateeteeataaeeateaateogooaeatggaggeeBgooo ▼ |   |                    |
| : Gene (MJ                     | Help                  | 530 | aataaagca   | aataaagcat  | aataaagca   | aataaagca   | aotaoagcar   | aataaagcak  | aataaagca  | aotooogcor  | aataaagca  |   |                    |
| Jence Alignment: Gene (M33388) | Colour Colculate Help | 520 | gaaaaaaaa   | gaaaaaaaa   | 19000000000   | gaaaaaaaa   | 1900000000   | gaaaaaaaa   | gaaaaaaaa  | gaaaaaaaa   | 900000000  |   |                    |
| Seg                            | View Colour           | 510 | tgtc  | ctgtc   | Sctgtctaga  | actoto  | 20ctate  | <b>Schatctaga</b>   | cactatetaaa  | Sctgtctaga  | Ctgtcta00  |   |                    |
| Feature                        | Font                  |     | ညြဘင်တင်  | gagacq  | gogac   | 20000   | gagac  | gagac   | gagac  | gagac   | 9000   | ō |                    |
| Gene                           | Edit                  |     | -   | ۲<br>۵  | n   | ۹<br>4  | S<br>S   | 9   | 7  | <b>∞</b>  | 6  |   | စ္                 |
| 10                             | Ē                     | L   | ₹   | ₹   | ₹   | ₹   | ¥  | ₹   | ¥  | ₹   | ₹  | _ | done               |

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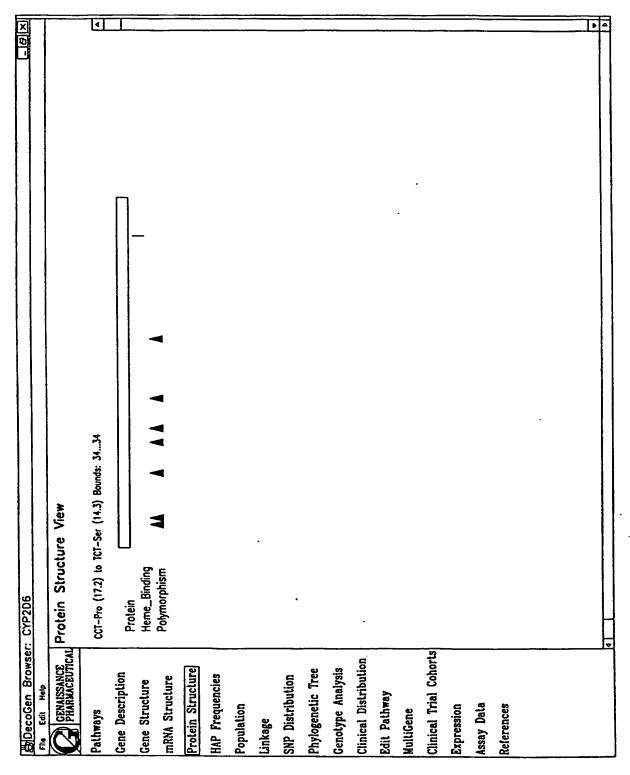


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9/62

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| <b>営DecoGen Browser: CYP2D6</b> | CYP206          |           |     |             |            |           |      | <u>                                    </u> |
|---------------------------------|-----------------|-----------|-----|-------------|------------|-----------|------|---|
| File Edit Help.                 |                 |           |     |             |            |           |      |   |
| GENAISSANCE PHARMACEUTICAL      | Population View | *         |     |             |            |           |      |   |
| Pathways                        | PID             | Ethnicity | Age | Gender      | HAP 1      | HAP 2     | Test | ग   |
| Gene Description                | UP070           | CA        | 88  | <u>u</u>    | GCGCTGGGC  | GCCCTGGC  | 0.1  |   |
| Gene Structure                  | UP072           | క         | 66  | Ų.          | desertesse | GCACTGGGC | 0.2  |   |
| mRNA Structure                  | UP074           | క         | 66  | Ŀ           | GCCTGGCC   | GCACTGGGC | 0.2  |   |
| Protein Structure               | UP132           | CA        | 66  | ×           | GTCCTCCCT  | GIGCIGGGI | 0.3  |   |
| HAP Frequencies                 | UP133           | క         | 66  | <b>X</b>    | оссстесес  | GTGCTGGGT | 0.2  |   |
| Population                      | UP134           | ď         | 66  | <b>L</b> L. | occrecec   | GCGCTGGGC | 0.1  |   |
| Linkage                         | UP137           | క         | 66  | ×           | GTGCTGGGT  | GTGCTGGGT | 0.1  |   |
| SNP Distribution                | UP009           | ర         | 66  | LL.         | GCACTGGGC  | GCACTGGGC | 0.1  |   |
| Phylogenetic Tree               | UP014           | <b>5</b>  | 66  | Ŀ           | decereece. | GCCCTGCAC | 0.3  |   |
| Genotype Analysis               | UP020           | క         | 66  | Le.         | GIGCTGGGT  | GIGCTGGGT | 0.2  |   |
| Clinical Distribution           | UP021           | ర         | 66  | 3           | ссеттетес  | GCCTGGC   | 0.4  | _   |
| Edit Pathway                    | UP022           | క         | 66  | 3           | GCCTGGAC   | GCGCTGGAC | 0.3  |   |
| MultiGene                       | OR001           | AS        | 66  | ₹           | dCGCTGGGC  |           | 0.2  |   |
| Clinical Trial Cohorts          | OR002           | AS        | 66  | 3           | GCCTGGC    |           | 0.3  |   |
| Expression                      | OR004           | AS        | 66  | L           | GCACTGGGC  |           | 0.2  |   |
| Assay Data                      | 08006           | AS        | 66  | le.         | сстесес    | GCGCTGGAC | 0.1  |   |
| References                      | WT003           | క         | 66  | LL          | ССТССС     |           | 0.2  |   |
| •                               | WT005           | ర         | 66  | ×           | сстсссс    | GCGCTGGGC | 0.2  |   |
|                                 | WT007           | క         | 66  | Ξ           | сстстс     | сстстс    | 0.4  |   |
|                                 | UP012           | ర         | 66  | Į.          | GCGCTAGGC  | GCGCTGGAC | 0.1  |   |
|                                 | UP135           | క         | 99  | ¥           | GCACTGGGC  | GCGCTGGAC | 0.2  | •   |
|                                 |                 |           |     |             |            |           |      |   |